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FIGS. 43A-43F are typical histograms generated by the hematology analyzer

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| | partials acta among others in series and/or in parallel In addition |
| | these sembling tions may enable ***misrefluidig***. systems to be tion? |
| | paytidles to treatment to be measured on a shorter time again than was |
| | proviously possible Therefore systems of the invention may allow as |
| | bried range of _ ***coll*** . and norticle agazya auch as dryg agreens, |
| | analyzana among othora to be agaled down to ***migrofluidia*** |
| | ****aigo*** Cush assled down assaura may use logs sample and respont |
| DADM | and thorain. This application further alaims priority under 25 |
| | IT C.C. goth 120 as a continuation in part of the new provisional natent |
| | by Chart of all filed on Mar 21 2002 (Atty Doglet No. 1292 210112) |
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| | **tmicrofluidic***customs for the manipulation and/or detection of |
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| DDMD | naviolas such as salls and/or bands displayed the state of the |
| | high to be the increase and the increase |
| | ****ricrofluidic*** system, in accordance with aspects of the |
| משמח | [0000] FTC 2% id a top plan view of a ***migroflyidia*** gyatom for |
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| DDMD | 100101 DIG 120 in a ten plan wing of another ***migrofluidig*** |
| | greaten for retaining and analyzing a subset of input particles, in |
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| | . **tmicroflyidict** - gratom for rotaining and analyzing, a gubset of |
| DDMD | [0012] DTC E is a fragmontage, top plan view of a **** |
| | aretom, for positioning and retaining a group of narticles and for the |
| | ~~~fusing the retained group with selected reagents, in accordance |
| חשמח | ************************************** |
| | |
| | version of the system of Fig. 8, in accordance with |
| חוזמת | 11C is a top plan view of a two divergional array of partials. |
| | accordance with associated of the invention """ MICCOLLUIGIC" System, III |
| עוזינוע | [0022] PIC 12 id a fragmontary ton plan whow of a straightfuldings |
| | accordance with agreets of the invention ts of particles in parallel, in |
| עוזינוע | [000El PIC 12% id a top plan view of a ***midrofluidid*** dyatem |
| | the retained partiales with distinct researchs in the pertusing |
| עוזימע | [A026] FIG. 121 is a fragmentary ten plan view of a |
| | transport in accordance with agraded of the inventionie sets of linear |
| עוזימע | [0027] PTC 14 is a ton also view of a ***migrofluidis*** system for |
| | this arms, denominating and in named and for periusing members of |
| חוזמת | [0040] DIC 17 is a fragmentary ton also view of a ***misrafluidis*** |
| | partially in accordance with a another of the invention es or groups of |
| חזינות | [AAA1] DIG 10 is a nair of fragmentary ton alan schometic views of a |
| | narticles that may be transferred to an array of separate sites retained |
| DDMD | And the system of FIG. 8, in accordance with based of the system of FIG. 8, in accordance with based of the system, in a system, in the system of the system of the system, in the system of the syste |
| | another ***microfluidic*** ***domicro*** for forming an array of |
| | retained particles that may be transferred to an array of separate of |
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| חוומת | The state of the s |
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| מוומת | [0044] FIG. 21 is a composite of ten plan and sectional views showing |
| | the floor of the grater in aggregation shamber that is fully spaced from |
| עוונטע | nhotographic image abouting colored nortions of ***microfluidia*** |
| משמת | is partially spaced from the floor of the grater in accordance, and two |
| | norticle, retention showher that is fully spaced from the floor of the |
| רוויונות | [0047] ETG 24 is a fragmentary ten plan view of a regardle |
| DDMD | minance of single particles, in accordance with aspects of the |
| | interior groups of particles, in accordance with aspects of the |
| שוומחת | having a corting machanism haved on centrifugal force, in accordance |
| חוומת | ************************************** |
| עויינטע | CONTRIBUTE TO THE PROPERTY OF A CONTRIBUTE OF |
| עזיינטע | inner with agnored of the invention with the control of the contro |
| חוזינות | with amanta of the invention of a **the another avertor with a parallel array of generate indicate and another income |
| חוזומת | INCANTOR with cannots of the invention able cell-chambel networks, in |
| חוזמח | norallol fluidic circuit in accordance with passed by a |
| מוזמח | [0066] ETC. 47 is a top plan mich of a ***microfluidia*** _ augton in |
| חוזמח | [0071] FIG FOR is a top plan wider of a ****coll*** _ shambor baying |
| | ***** -selective channels, in accordance with aspects of the |
| חויינטט | color for performing cleartrophysical and of a ***migrafluidic*** |
| עווינטע | north ming of agreement of the plan violetical analysis on a single cell, in accordance |
| עווינטע | avatom red atod to the avatom of DTC En plan view of a ***migrafluidig*** |
| חוזינות | ****dovice*** for perferming natch clamp analysis of cells, in |
| חוזומת | [0000] Titl 40 40 5 Framoustans ton slan ston of a ***microfluidic*** |
| חוזימט | [nook] The cold is from notice and appears of the internal cold of the cold of |
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| DDMD | invention and managered signal plus noise without (top) and with (bettom) |
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| | implementation of the modulation demodulation method of BIG 718 in a |
| | system, in accordance with aspects of the |
| DDMD | bioting the dead to a strong resident and designed on of exposure of |
| | . ***migrofluidic*** system, in accordance with aspects of the |
| DDMD | invention inpomorph to a rotained coll that was avalended with a |
| | coloium conser due praine the method of pro 710 in add with a |
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| משממ | [0000] PTC 7]P.id 2 graph of managered fluorescence intermity vergus |
| | during apparator to a due in aggordange with agreets of the invention |
| DDMD | [0100] DIG 70 is a time lange set of photographic images resording. |
| | avetom in aggordance with agnosts of the invention croffuldic*** |
| חזומת | of thindingth to attach the structure of biotin and its mode |
| DDMD | [0303] FIG. 74 is a time large set of photographic images recording |
| | ***microfluidia** evetom in accordance with senacte of the |
| DDWD | invention itside. System, in accordance with aspects of the |
| | ctimulation of ion flur in a ***migroffujdja*** gygtem inruing |
| חווימת | Total Big ac is the senset of the invention with |
| | aportogia and pogragia in a ***migrofluidia*** system in aggordance |
| מוזממ | 101061 EIG 70 is a photographic image recording guages ful staining of |
| DDWD | a doll to membrane in a non ****migrafiluidia*** Convironment aining of |
| DIME | retention of a single self at a propole and did in any recording |
| | ***ricrofluidic*** system, in accordance with aspects of the |
| חוזוחח | in a time large act of photographic images recording retention |
| | of a group of golds at a propolate of the incompared ***microfluidic*** |
| חזומת | [0110] Bid [02] id 2 fime lands got of photographic image regarding |
| | fivation and staining of a retained gall in a ***microfluidic*** |
| חוזמח | [01] TO 04 to 5 top 5] or view of 5 . ************** gratom for |
| | annulurance a area delegated and of colle in which the auctom includes |
| חזינות | [0110] PIC OF is another ten also view of the ***missofluidis*** |
| | in accordance with changes of the invantion's for reservoirs and valves, |
| עשמע | [0110] The invention provides augtema including appayates methods and |
| | partiales and as solls virgas examplifies boads and/or vestales |
| | The invention place provides ***migroffyidia*** mechanisms for |
| | onable controlled input moreoment/pogitioning moteration/localization |
| | treatment measurement release and/or heterogeneous partials |
| | in parallol. In addition those combinations may enable settles and/or |
| | ambinations may allow the response of partiales to treatment to be |
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| | monaugod on a abortog time again, then was proviously pegarible to be |
| | Thouseform agentian again then was programmy negation to be Thouseform agentian agents again agents allow a broken agents against the second that the second |
| | mnonword on a shoutow time goals then use movericusty specific. O De mnonword on a shoutow time of the invention may allow a broad years of the time of the invention may allow a specific time of the second tendence the second |
| | managed on a phostor time and a them are periodically to be the control of the co |
| חשח | manused on a showbar time and a then are neutral at manufally to be therefore a surface of the investion must be designed as a surface of the |
| חשפת | mnauvad on a chowten time and a them and maintain to be the standard of the factor of the standard of the stan |
| רושטרו | menoused on a phorton time, and a them use, specifyed, need the cole that the cole of the |
| חששח | manused on a chorter time and then an environd to condition to be the standard and a chorter time and the standard time to the standard time time time time time time time time |
| השתה | manused on about a time analy them are reprinted another to the control of the co |
| חשתה | manused on a chorter time and the beautiqued, need that to be the standard of |
| חששח | system, in accordance with aspects of the system of system, in accordance with aspects of the system of system, in accordance with aspects of the system of |
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| רוחטרז | manused on a phorton time analythen and paper and the control of t |
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| השתה | manused on a chorter time analy then any particular readily to the control of the |
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| חשייה | manused on a chart of time, and to them are provided to accomply to the control of the control o |
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| השתח | manused on aboutes time, analy, then any manufact, head the company and the company of the compa |
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| חשיים | manused on a phorton time, analy then were manufactly head the control of the con |
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| חזיים ח | manused on a phorton time, analy then were manufactly head the control of the con |

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| משמר | [0191] ***Milarotiuidaa*** Protoma
[0191] Dartiale manipulations and analyzes are norformed in |
| | ***microfluidic*** auctoma A |
| | manipulated generally logg than about 500 must traigally logg than |
| | shout 100 _mu_I_ and more tunically loga than about 10 _mu_I_ cos than |
| | or many and the digast grant and a production of the program one |
| | passage may baye a minimum dimension generally height or width, of less |
| משמר | than shout 200 100 on E0 mu m Daggaggg |
| | naganger that intergerment to form a generally glossed of more sets of |
| | ***microfluidic*** notwork Cuch a ***microfluidic*** notwork may |
| | to the network that interface with the outcome? world Cuch energing |
| | may regarive atore and/or dispense fluid Dispensing fluid may heard |
| | the ***migrefluidig*** gugtem Cugh eneming generally function in |
| | input and/or output mechanisms, described in more detail in Sections IV |
| משמר | TOOLS AND THE STATE OF THE STAT |
| 12-1-1 | quitable features or mechanisms that contribute to fluid reagent |
| | and/or nartial a manipulation or analyzia, Dor ogamals Id/ Idagent/ |
| | maghanisms that determine appears of fluid flow rate and/or nath Walves |
| | and/or numbe that man participate in such regulators mechanisms are |
| | described in more detail below in Costion II Alternatively or in |
| | determine regulate and/or sense fluid temperature fluid prossure |
| | fluid flow rate corregure to light garage to glostric fields, """ |
| | ***migrofluidia*** gyatoma may ingludo hostora goolora electrodea |
| | lipace arctines light sources presquire sensors reference transducers, |
| | ***migrafluidig*** gygtom may ingluda ana an mayermana ang a |
| | a godo to idontify a given gustom The features may estilat act as |
| משמר | [0127] ***Migrofluidia** augtoma may be formed of any auttable |
| | materials. Suitable materials may |
| רשמר | [0120] Dynamalany materials for ***tmissofluidist** systems are |
| | Cross Deferences which are incorporated berein by reference ender |
| תחםר | [0120] ***Migrofluidia*** _augtoma alao roforgod to acjahina mau |
| | have any suitable structure. Such systems may be fabricated as a unitary |
| רהםר | gubstantially planar layer that functions as a substrate layer. |
| | in gome cases gentributing a floor portion to some or all |
| משמר | [0122] Components of a ***misrofluidis*** system may be fabricated |
| | by inv suitable mechanism hased on the desired application for the |
| | ording and or materials used |
| | nunching among others Alternatively, or in addition components of a |
| | migration of the street of the |
| משמר | [0122] ***Migroflyidig*** gompononta may be fabricated generately |
| | idined and further medified as appropriate For example when "" |
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| | fabricated as distinct laware ********** commonate may be |
| | fabrigated as distinct layers ****missefluidis*** ammonanta may be banded sonerally face to face mbose sonerate ammonanta may be surface trooped for our face |
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| | fabbigated an distinct larger. #################################### |
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| תחשר | fabbigated and distinct larges. ###### innefluid it#### manmanath may be surface translated for available with specific between the many be surface translated for a surface translated for a surface translated may be surface translated for a surface translated may be surface translated for a surface translated may be surface translated for a sur |
| תחשר | fabrigated an distinct larges. ****missessimilation and commonants may be surface broaded for agents with marking about 10 to the property of |
| תחשר | fabriar ad an distinct luyer. ************************************ |
| תחשר | And another structure. Such systems may be fabricated as a unitary in and another structure. Such systems may be fabricated as a unitary in and another structure. Such systems may be fabricated layer, and another structure of the structure of t |
| תחשר | fabriated and intend layers. ************************************ |
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| תחשר | fabbiarted and distinct lawers with confluid attended and person of the confluid attended for a series of th |
| תחשר | fabriar ad an distinct luyer. ****misrafluidist** managements may be surface through for your little markets about a sufface through the markets about a surface through the surface throu |
| תחשר | fabbiar od an distinct luvers misting consistent that makes an amount may be surface tracked for a view of the constant may be located by the constant may be located b |
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| תחשר | fabbiarted and distinct layers with confinition the management may be curied to the confinition of the confi |
| תחשר | fabbiarted and distinct livers with another in the manager may be surface tracked for Ayana livelih and the short to short and the manager facilitate and units and or an extended for the short and the short may be considered to the short may be con |
| תחשר | fabbiar of an distinct larges. #************************************ |
| תחשר | fabbiarted and distinct layers with innefficial the managers may be surface tracked for Avanda with near the model for the managers and the model for the mo |
| תחשר | fabbiar and an distinct livers with another in the manner may be surface tracked for any least the manner of the m |
| תחשר | fabbiar of an distinct larger. Mistain angle of the manager may be suffered to the control of the manager of the control of th |
| תחשר | fabbiar of an distinct luvers which confluid attended and so a surface tracked for Ayama Services and the model for the model for Ayama Services and the model for the mod |
| תחשר | fabriar called light here with another it attended and another may be considered to the construction of th |
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| תשמח | [0141] Pagagaga may branch isin and/or doad and to form any quitable |
| משמח | proposition storage migrae and/or release among others materials |
| | materials to a ***misrofluidis*** network(a) nertice of a skin By |
| משקח | hoterson monopolis and which will be made to the first and or the first and or to the |
| | analyma namerialas A nameriala gananally and mitting any object that is |
| | haran analyth to be distinguishable from the fluid. Particles, as used |
| חשמר | have any quitable origin genetial hadraround state of health, state of |
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| | allow welcook of weekelleve done to de dallo mer house hose averaged hose introduction into a *** migrofluidia*** average he averaged |
| | proceeding of the Buding infoguing thing are included model and the truethent, |
| | Tractaction and religious designs and the second se |
| | any quitable machanism such as affinity ***thinding*** TAGE days ay coloriton of coloring to the color may be a mixed or betweeneous population of |
| משמר | [0167] Winning may be manipulated and/or analyzed as satisfies in |
| | migrogachic/gubmigrogachic passaited of colla /animala planta fungi, |
| רוחים | INTERL Common line may be manipulated and/or analyzed in" . *********************************** |
| מחם | mixtures shaces virging and/or colls among others For |
| | *** hinding*** noin (goo Contion VI) auch any recentor a ligand, a |
| רוחים | IN1771 ***Microfluidic*** anatoms may include one or more input madentians that interface with the ***winefluidic*** networks. |
| | interting the right of the companies and the companies of |
| מחים | coloction (that is component by component) and/or bulk machanisms (10170) The input mechanism may receive material from internal courses |
| | and/or external courses, that is, reservoirs that are separate from, or |
| יחדי | 101041 ***Migrafluidig*** gyatama may ingluida ana an maya |
| TT. | muchaniam ton mindia jobaitida jobaitidipilla and on thananacala importam |
| | avia of a ***microfluidia*** channel and/on a fluid flow atream " |
| מחיי | mochanisms compressly comprise any mechanisms in which a force |
| | section of the distribution of the front the fluid Parid bat is as used the first control of the distribution of the fluid parid by the form the fluid parid by the form the fluid parid by the fluid by t |
| | and/or arguity hand foreign among others norticles Cuitable |
| | network, which may, as mentioned above, move charged particles directly |
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| תחשת | Downston hards may be formed at the first portions of particles. |
| | outlot oithor fixedly or transionally Dor ovamble when the "" ***migroflyidia*** |
| משמח | cuch as PDMS, gas present in a dead-end channel can escape, or |
| | agrange to (a) and (a) hisland all navital all among others that contacts |
| | Borgonta may play a role in partials analysis including energing as |
| חששח | moderne actioned buffers delicated model to many include one reagent |
| | apporting the tracked appoint or setting with particles and and and apporting any |
| | constitution and the property of the control of the |
| חשמח | [0000] Dartiales in . ***missefluidia*** sustans may be expended to the standard mechanisms |
| | However these "near fluid redistrol" mechanisms may use magnifications |
| | The board of the same and the same as a second of the |
| | Afford Toroid for a gradition of the state o |
| משמת | [0046] Bartialog manipulated by a ***migrapfluidia*** gyatem may be |
| חשמח | 10026 Aprilato minulated have the interest reled, a magnetic field, 10026 Aprilato minulated have the interest reledition of the manuscrape magnetic field, the manuscrape magnetic field the field the interest reledition to the magnetic field the |
| | and 7 hours () 4 ** mithous natified of the moly work (the last and may be twiced |
| חדידה | mochanism may be used to detect partial of and/or partial of |
| | the photographic and invitation of the photographic detaction site, internal and/or external |
| חשמח | [0254] Ouitable internal detection dited may impled differ eite (d) in or |
| חשמת | anaproja anaprojatica anaprojatica substitutions thereof. Particles or |
| | detection gitted may be used to detect a partial a content Distance dwdy |
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| | ingtical of ampayanta, addition to intermed at further wing martiales (or |
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| | ord introduced among others organism, use in clinical treatment, and/or |
| חשמח | activity number and on movement of DNA DNA profession on you lipid, |
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| משמח | 102781 ***Midroffinidid*** augtoma mar, include one or more output |
| | modeling that interface with the ***midrafluidid*** network(s). An |
| | onfinittina mitarial(a) (o a fluid birtialca ind(or forecata) trop i |
| | and/or bulk machaniama The output machaniam may direct outputted ective |
| משמח | material to any quitable legation |
| | ***microfluidic***, quatoma Who goll gulture, moghanism, generally |
| | maintenance and/or propagation Cuitable della are |
| משמח | [0070] A ***adl*** aultura mahaniam of a ***miavofluidia*** |
| | golla Cultura chambara may have any quitable ***gize*** . shape. |
| | ***migrafluidig** gratema baged on the number of golla to be |
| | aultured ***gire*** of calls lacarys to performed on the cells, |
| | ********* of a culture chamber may be only large enough to held one |
| | ************************************** |
| | abambara marcha defined by a gelegated portion of a manager an entired |
| | may be greater than logg than and/or equal to other particle of then |
| | ***microfluidia*** network Come or all of the curriages of a sulture |
| | modified to facilitate agreets of ***goll*** gulture agricularly |
| | 30001111 0 19943011444 |
| | (or lack thorough among others Cuitable motheds of passage treatment |
| משפח | _ tomporature rate and frequency of modia sychange, and/or the |
| | oversel to a ***microfluidic*** gratom Internal mechanisms may |
| | include on board bostors, and conduits and/or modic reservoirs. """ |
| חששח | tomporature controlled an acmosphere- and/or |
| חחשת | 1070E1 ***Microstluidic*** gustoma are used for nertials manipulations Dertials manipulations composits are suitable |
| משמ | 10001 BTG 1 shows an exempley method 100 for the inneff wild the |
| | manipulation and applying of particles with systems of the invention. |
| מחמר | [00001 Partiales twiselly are initially insutted in an input stan |
| | shown at 101 Dartials input introduces nartiales to all Infut Stopy |
| משמח | modhaniama docarihod shows in cognion Ty mediated by any of the input |
| A Dollar | cuitable release mechanisms are described above in coeffice Trotained. |
| | hittpratively ***migroflyidig*** avetom may be discarded before |
| משמח | |
| | or northing framework at one or plural positions within |
| חששח | [0204] A basis manipulation of ***misrofluidis*** analyses is IP. |
| חששח | to output (IFO) of to (path 104), |
| TO THE | for any guitable call assays or methods, including any combinations of |
| משפח | [0000] Who ***coll*** agains may observation colls with an |
| | without addition of a modulator ***#doll*** adding man managers till OI |
| | Those agains may share-tening individual calls and/or ****call*** |
| | nonulations/grouns of any suitable *** # desired ** Colla may be |
| | characteristics of the colls themselves alternatively or is addition |
| | to measure interaction (a) hetween the celle and the modulator |
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| משמת | [0000] [000] |
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| 112-111 | Condition of the condit |
| | golla The geneturia aggains may be conducted on any quitable duction of |
| | complex property and the complex companies for a complex price of the complex property companies of the comp |
| | ota_ ovpovimentally manipulated golla (augh as transgenia, "1"/ |
| | Musiciansid bybridigation with musician saids may be carried out with a |
| | pair (see Section VI) a stom loop probe sarrying an energy transfer |
| | pair (auch ag a "mologular beacon") and/or with a canoata may |
| | diploid tetroploid or polymploid genetypeg and/or ************************************ |
| | distribution) number or negition of appointing abromagement and/or cycle |
| | position of specific genes (such as adjacent the nuclear membrane, |
| חדידות | [0204] Dhonotymia aggava may be conducted to abarractorize colly in |
| | ***microflyidic*** aratoma board on acceptia makeum and/or *** |
| | man monager of molecular or presence of modulators. These assays |
| משמח | [000E] \$anocha of g whole ; ***anll*** on whole ;***anll*** |
| | annulation may include number ************************************ |
| | transprintional activity mitotic activity realizational activity |
| | transformation status of one or more. proceeds, intact/lysed, |
| | processed/shapesed/officionary of attachment to a substrate for to a |
| | nanajan) arouth rate (***anjl*** grale digtribution ability to |
| | rotting INA - roamongs to host about grature and/or frequency of ' |
| עשמע | [0206] Address of ***goll*** careenaling may include manner |
| | /****igo***, abone diginibution logitivity of a ***cell*** 's |
| | mombrane lyangomea mitoghondria Colgi apparatus endenlagmia |
| | roticulum, norovidomos gualcar membrana endecemes, secretory granules, |
| חששח | district the second property of the nuclear membrane, 1971, Benefit in genes (such as adjacent the nuclear membrane, 1971, Benefit in genes (such as adjacen |
| | progango/absongo or lovel logalization movement activity include |
| | modification, gtrusturg, ots. of one medicia scid(s) inclumentide(s), |
| | motabolita and/or a somplay/os) thoroof among others Brosonso/absence |
| | or lovel more be measured reletive to other sells or ***asil*** Decise |
| | ho relative to the whole with and without medicidual tetralities may |
| | organillos or somnononts. For oramplo_losslisation may be syttemlasmic. |
| | nuclear membrane aggedished ****coll*** gurfage aggedished |
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| | transcription factors that translagate between these two include |
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| | man include enderstogia of ***anll*** curfore peroptors or "Overhouse |
| | and/or the like a distant continues or in reasons to ligaritestin, |
| | ***binding*** . Activity may include functional or entirely. |
| | gigh as organized activity fluorescapes, and for the like, for example, "" |
| | partners in on or about solls! Matheds for measuring modifications |
| | and/or otherstore may include apecific .***binding*** _ capata (such as |
| | reagents energy transfer measurements (such as DDDM) |
| חששח | |
| | tor measuring nelumentides may include engaged and/or use of |
| | among others Specific ***hinding*** members are described in |
| חששח | Continuity of Sports Sandan Sa |
| | a modulator to a ***coll*** or nonulation of colla or anyla" OI |
| | Antagrahla ghanga in a * * * gall * * gharantarigtin in regional to the |
| | production that is a given partner(s) that is in on or about that is |
| | www.go.]lewe_fal_Co.orifia weekindingeee_georeboro.or_weekindingeee |
| | coefficient with the given partner of about 10.sup3 M and lower, with |
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| | synformed generific ***binding*** confficients of about 10 cm 4 M |
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| | by the state of the day of the state of the |
| חשמח | due and marked and a labeled and a with an entigally detectable |
| | ***Dinding*** of the dwe to the ***aoll*** or solls thus may be constituted alternatively or in addition the ***aoll*** may be |
| | treated or otherwise progressed to enable measurement of a phonetymic |
| חשמח | [02141 Colle and/or *** coll*** repulations may be assessed with |
| | modulators with desired interaction campbilities quality a offeet |
| | dana? protein finaton the maining and office in other hand? or doot fit along the |
| | mombrie (modulators) that share a common characteristic such as |
| חששח | 103121 ***Microfluidia*** account of colle and/or nonlations may |
| ì | management and invite of giamal transduction pathways. The activity may be |
| רשמר | 102171 Cional transduction nathways conorally comprise any flow of |
| | ANTHORNOOTE FRANCES ATTENDED TO THE ANTHORNOOTE AND THE PART OF A THAT THE ANTHORNOOTE AND A CONTRACT OF A CONTRAC |
| | or other medication and the stage of the triangular distance and the |
| | arrants at an mass the membrane by ***binding*** to a ****anll*** aurence are recented auch as a C Destein Counted Descenter (CDCD) a |
| | shannel sounled resenter a resenter turneline binase a resenter |
| ì | which the membrane and directly in the medulators pass |
| i | Topontors professional and the supplications are supplications and the supplications and the supplications are supplicated as the supplications are supp |
| מחפת | hand of load to have tally on the type of dispal transduction |
| | mangume ligand ***hinding*** manatan intermaliantian agaid in |
| ì | mambarin duranti disposation of magantar with another factor, such as |
| טשמט | and/or nomilations of salls and/or modulation interestion of cells |
| | The second state of the se |
| | gyatom may be gonducted in navellel using a side by side configuration, |
| טשמט | The self-war and the self-war and the self-war and e-cell |
| משמח | any assays that are preferably or |
| T COUNTY | angle acida and/or asset to remain the house of the corted/or code |
| | galla or namulations may be sologist by stochastic mechanisms (see
Prample 2) ** *********** density memotic properties ************************************ |
| | aurface areacrice (that is shility to adhers to a substrate) growth |
| | of angulation may be deviced more than oned during manipulation and/or |
| | and/or |
| | bionica partially trappagated or differentiated ************************************ |
| | challman and deshealseastees as dance obstilled datum of 1 1010011 1. fallong as filmbres |
| | showed in Costion III and a led in Evannilation of the 22 and 25 described |
| חששח | [0206] ***Microfluidia*** avatoms may nonform atomics and/or maintenance functions for solls Resordingly colls may be introduced |
| | into ***migrafiuidig*** gustoma and gultured for mediaged newide |
| | one work their ***microfluidica*** and one for atomic and one of mointenance of golla may gongume amallor amounts of model and ances and |
| | marked 12 de calla de |
| | ************ systems are included in Section XI above and |
| | Example 10 below. |
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| רשמע | (1978) ***Micros Division and the control of the co |
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| I | and/ow methods mhose agreement measure *** indicate** (confident) of modulators (compounds mixtured polymors biomologica colla otta) |
| | or more materials (compounds, polymers, mixtures, cells, etc.). |
| משמת | [0221] The following examples describe solected assess and embediments of the invention including methods of fabricating integrating and |
| | 19211 The fellowing symmlous despite a solution another and embediagnits with the fellowing symmlous despite a solution another and embediagnits with the fellowing symmlous and solution and another |
| משמח | [17] transition and and not the first transition of th |
| | positioning and/or retaining single partial of a groupe of particles, |
| משמח | noticel and clocking the analyze of the control and the control and clocking manufacture of the clocking manufacture of the co |
| | was a ***mignotluidia*** Flow nath that divergence to form a magainstangent fluidia meging at the negition of divergence. Bartisles |
| | ontoring this quadi atamant fluidia vacion trom a ***misrotluidia*** |
| חששח | 102401 End 28 Adhered a gratum 110 for 1 4 ** interpretable at material |
| | The investigation and one and organization and the contracts of |
| | 120, and (3) two output or waste reservoirs 122, 124. Particles are |
| טשמט | 1024El BIC 2D shows another system 1101 for ***misrafluidis*** |
| DEMD | the invention. The coexistional nainginal of for gratem 1101 of DIG |
| | manipulation and/or analysis of anticlose in accordance with accordance to |
| תהפת | 18, 100, and (3) two output or waste reservoirs 122, 124. Particles are. 118, 100, and (3) two output or waste reservoirs 122, 124. Particles are. 100, and |
| | ombodiments and/or for other salls was 110 may be wide oneset to |
| | nortitions 102 104 form a votantion site 214 at which "***coll*** |
| | hlock or diminish fluid flow |
| | nametitions 100 104 has a mosule in some ambadiments twen 100 may preferentially retain anly and the standard standard transfer without any |
| | mond for ontided monitoring during moditioning and/or retention. Thus "I' retention gite 214 may be dimensioned based on the "their state" of " |
| | Soling to his mighting of an are observation cells typically are about |
| טשמט
טשמט | ***Misrofluidid*** Dustoms for Branning and Domfusing Dartisles [0]SDI This oramno dosmihos ***misrofluidid*** oratoms that |
| | residion and retain signing retailed and affect of north alor and allow |
| חשמת | homographed and or an above transfer of the population is |
| | avatema That had comet and the receipt which have not at a receipt and all at all all and all all all all all all all all all al |
| | argaing the retained set of |
| משמח | [0254] This overmal of degrating of the grant distant and the grant of |
| משמח | 1035C ETGS 5 11 about a gratem 250 for the grateful digitate and |
| | 75 Caratam description 7b 7 great m production 7c Variation including |
| חשמח | [ADED] DIG E shows a partian of a sustant SEA for ***missoffuidis*** analysis of soll nonvilations Cystem 250 includes a ***missoffuidis*** |
| | lawar 250 and a santral lawar 254 wtwistandluidistte lawar 252 ¹⁰ |
| | denisted in blue and errange Control layer 254 is nesttioned even and shutting the ** ** ** ** ** ** ** ** ** ** ** ** ** |
| | presented below for system 250 |
| | probabled below for specim rot |
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| רושמעו | COSEGI The ***migrafluidia*** lawar includes ***migrafluidia*** channels with distinct geometries and functions. Dlug flow channels 258 have a coming devaluer or years to around engineer, profile and are |
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| | nositioned naviale Thus those sell sharpels are used to nosition sells to propoleted laminar flow streams and recordinated resinns of the ***misrefluidia*** network Derfusion sharpels 262, |
| משמח | conducted reproducible with the rapid response times afforded by this |
| חשמת | ************************************** |
| חשמח | the ************************************ |
| חששת | channels with distinct the control of the control o |
| NDWN | "Angel The ***mineshidis*** and the demonstrated have an heaved for any nutration and nearly sed for any nutration and nearly near the angel the a |
| חששח | days a series of the series of |
| תשמת | on ****noll*** ***noll*** communication modified by nographs 402. [1020] ETC 110 shows a velocation modernia #10 that may be used to the substantial form of the substantial f |
| משמת | of***Microfluidic*** Systems for Parallel Retention and/or Treatment |
| משמת | [0204] This owner of Assertines ****misselfuidis*** most and such as the position of participation and for reasoning at the second for the position of participation and for the position and for the position of participation and for the position of participation and for the position of |
| חשמת | s**Microfluidio*** Systems for Parallel Retention and/or Treatment (1974) Mrie annual document (1974) Mrie annual |
| חשמח | Throad man 1 444 migrofly distant average and the state of analysis of the state of analysis of the state of |
| חששח | officient and manningful up of ***migrafilidia*** space for form more |
| חששח | Ownering the nepulations to one or more selected measures case, and china work fabricated according to system 400 of FIG 12% and used for |
| חשמח | that may be used to separately address particles and/or reagents to sets |
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| | of norticle trans. Protom 1930 includes altoprative embediments |
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| | achambar and a analysis abamber with ***size*** |
| משמת | ******** rofluidic*** System for Multiplexed Analysis of Particles in |
| משמע | narticles in a generally distributed not of particle retention sites, and |
| IXD/IIIX | the still the second state of the second state |
| חששח | finational manifolds and analysis of nortical and analysis of south of the state of the control of the state |
| | the austern allowing transment of the transmed newtrales the transment of the transment of the austernation of the transment of the austernation of the transment of the austernation of t |
| | fluidically igalited during partials treatment and management. This |
| | high throughout drug discovery. For example, system 510 has a footprint |
| חשמת | the household drug discovery. For example, system 510 has a footprint for all NT 1 drug discovery. For example, system 510 has a footprint for all NT 1 drug discovery. For example, system 510 has a footprint for all NT 1 drug discovery. For example, and the system of |
| | hand the distinct layers. (1) and the special layer 514, shown in |
| DEMD | directed networks Dartials leading network 516 is used to input and |
| חששת | Daysid Average William and Analyzing a |
| חששח | 104561 In many annications it is necessary to form an array of |
| | number of colls Thorac shambors allow multiple experiments such as drug |
| | ****anll*** ahamhara distributing an agual galuma of a ***anll*** guanangian to agah of the walls Tha ***tire*** of these shambara |
| | relation simple landle that with own force and to have all for |
| | in limited amonth, migratitor plates do not provide an ademated to alore an equal |
| | manforming and mixing atoms aspect to managers with migration plates, |
| חששח | officiently loading, rapidly treating, and analyzing small numbers of |
| חששח | forming an array of gingle nortiging or small groups of particles. Dovice 610 includes in input glannal 612 |
| | amallan #laak# ahannala within filten ahannal 616 on hu nasta ^{ou} Mi
Ahataalaa on nastauaisaa that autand into a nastion of filter
ahannal 616 on that are dinagrad adjoining on adjagant as and of the |
| | filter channel The diameter of the amallor channels or the anadiar of the mosts of the anadiar of the most of the anadiar retained in abanhor 10 Thus os long as the diameters of these amallor retained |
| | the particle will be confined to chamber 618 |
| | the partitive will be confined to chamber off |
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| COMM | naviale Cuch input particles may have a common **P** is a control of a control of the control of | |
| | golla from a homographous _ ***goll*** _normlation _or_thou man have gas | |
| | wings of sides and a solid from blood in some embedaments the light | |
| | of a cinal a nartial a. For aramala, the diameter marche large anough to | |
| | reserve certain partiales in a beforespecies partiale permittion such | |
| | ovaluda othera auch sa white blood della Dilton 600 plac patamen co | |
| | abamban 610 individual filton abannola 616 may be degraned to retain a | |
| | gingle ***anll*** within a defined ***aign*** warmen to account to | |
| | group of two or more golla with each ***goll*** having a minimum | |
| משמ | 104001 tetrollett comba described in this evenue may be useful in | |
| | a variety of applications Por example ***soll*** comba may be ut !!! | |
| | unctul in doug discovery convince as vanlacements to misratitar mistas | |
| | numbers with survent technology the fabrication of goah ***cell*** | |
| | anamhor in a www.aciliwe domn.acrinad and he approach out with an | |
| | array of solls formed using this devise with reduced signal variation | |
| | ###Coll### combg mary maya agraceally be read with a reviety of | |
| | migran sized partialed in addition to delle and has there are no one or a control or | |
| | no long to the ***digg*** of the nartialog of interpol is larger? | |
| | also say be engereded so that objects of different sizes are filtered out | |
| מששמ | 104711 One goal of the composition of the graphility of | |
| | rotaining partialog at progological positions, for subsequent treatment | |
| משמח | hoon dimensioned to tran a single partiale, however they | |
| | alternativaly, may, be dimensioned to tran two or more naptiales. The | |
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| | norfusion mochanism 260 is described the nositioning and | |
| | this overned may be combined with any other suitablesms presented in | |
| תחשת | 104751 DTC 21 above a weeknight for navitale analyzis | |
| | modification potations and/or porfuging a dipala namifials in | |
| חששח | 104771 DIG 32 about another ** ** ** ** ** ** ** ** ** ** ** ** ** | |
| | nogitioning retaining and/or norfuging a gingle natical in 190 | |
| | adhomatic of a sugtom 740 whoreas view 744 shows a photograph of anest | |
| | flipped herizontally Cystem 740 includes a trap 746 positioned 2, but | |
| משמח | Control Tr of W innetion 714 due a Clap / To positioned | |
| 10000 | Continue fined supher of innt nation of the continue to the same of the continue to the same of the continue to the same of the continue to th | |
| | aggardangs with aggards of the invention Cyatom 700 includes | |
| | but included a negation 004 of ****** drafter out of of (| |
| | overal cutting and determined from show how retention blocks 800 | |
| חששח | force In view, 916 the force plane is near, the substrate | |
| | ****migrofluidid*** lover 922 gentrate gubetrate 720 mbo bettem | |
| | norimator 00% of blocks 800 is blurry because bottom surface 814 is | |
| משפח | Modboniana for Bouarble ***Miaroflyidia*** Cratona | |
| NUMB | 10/011 This evenule describes mechanisms that receive en elections of | |
| מששח | golloction and/or requencesion of norticles, and PICC 24 20 DC/ | |
| (Dilli | Cuch single use systems may be used to retain and analyse a single sell | |
| | The state of the s | |
| | for initialization. Thus, there is a need for a reusable | |
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| משמת | The property of the property o |
| | ***midranfluidid*** madhanidma indluda /11 a navtidla valonga~* madhanidm /01 a navtidla dollagtion madhanidm and /2/ |
| | augpondion mechanism "he partiale gembiration well area times three |
| משמת | 104 of 24 deem 2 ********************************** |
| DEMD | naticle release with agreets of the a particle collection mechanism 854, |
| משמח | [0401] Pluid flow through _***aigne*** anleative abannel 979 and thus nowtials malesas is somewelled by value 10 /goo PIO_240_ Volve_V0 is a |
| | for trade larger walvey dispanded from managed for the formed fill de home of the V2 |
| | who are two made and the two made and th |
| | the main flow strong cons from the buffer wells to the *** washings us, |
| | shannol 070 ownered hringing fluid in through ***size*** -selective |
| חשמח | outlot of his paging through files channel antonting are 196 to |
| | flowing for the cutlotium high relations are related to related assetigles from |
| | which differentiation and contains all followed as the followed as the |
| | anaphrical machanism 860. Alternatively, the retention area may be y |
| משפת | [0400] Chandand martials innut mechanisms such as inlet well 220 of DTC 0 are sufficient for sizele use the innut limits are authors |
| חששח | Towards the transfer median her the interest of a reverble systems. In |
| T CD-III C | The first of the control of the cont |
| | nawial of industrial i |
| | awakam Maahaniam 020 inaludas an inlat reservoir 022 receives and |
| בשמח
השמח | ***Microffuidic*** Modhaniama for Adiustable Reacast Delivers |
| T CO-III C | dogg Hovelorg this too roads may be being the provide a range of |
| | discount material volumes in a weekingsthild severe and hosping |
| | Thus there is a need for a ****misseffuldist** mechanism that tune dispenses a promised respont to a rape of selected concentrations. |
| משמת | main a language of respond at the second of gongon xations, in accordance |
| | ************************************** |
| חששח | designed of the warmen because 1926. Inlet reservoir 922 receives and with the second of the warmen because the property of the warmen because the property of the warmen because the wa |
| | and quitable ***midnofluidid*** ***dovido*** for any quitable anniaptions per overmel diution mechanism 000 may be used in table. |
| | ###micronfluidig*## gvatem 2EA in PTA 0 of Prammic 2 to mronave and |
| | TEST THE MICROST AND THE PROPERTY OF THE PROPE |
| | natival of into their commonants and transfer mentioned and |
| | This there is a need for a **** netpotially negatively based on |
| | different physical properties of the distinct particles. |
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| תשמת | liquid columna havina different heights in input and output |
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| DEMD | The control of the co |
| TADILLA. | 23 de la companya de |
| | formed with any guitable dimensions Durthormore manhanism 1020 may |
| | then their or analysis into any desired number of outlet channels and/or |
| משמח | shambara retartion machanisms nartusian mashanisms and/on the like. |
| L | corting machanism 1062 with modified corting parameters in accordance |
| חששח | INEREL BIRC 34 and 25 show another ****missonfluidia**** system 1080 having a conting mechanism 1002 with medicing governor approximations in |
| רשמר | accordance with agraph of the two miles The provided and anist into two |
| | ************************************** |
| חששה | incough the system |
| | physical properties of partiales The approximately the foldistinguish |
| | ************************************** |
| | and of these quaters who he modified and refined and armical connected in " |
| בשמר
השמר | ***Migrofluidid*** Gugtoma for Manipulating Octa of Darkfalog
[AS2] Mbig_ovammlo_dogamihog _ ****migrofluidid*** |
| חששה | Take Ting and on another on the more than as |
| 110 | institution film addition may a the made to the film of the film o |
| | of inlot or outlet recovery liquid Apportingly it is desirable to |
| | aunid manasadly introducing and comparing markiells from USBIEDUS to |
| | Therefore there is a mood for shambers for storing, treating, 19 |
| טששט | [NE27] This around adaptibe region +***midration idia*** aretoms that address and agree gone or alted |
| | miltipure doft Tithorogobir ag doggrifod plant har the Thereigd |
| | had for the form the fall when he will be a fine of the fall of th |
| | that include values summe veters mivers filters services Systems |
| משמח | [0520] FIGE 20 22 illustrate exemplant, ***migrafiluidicit*t networks |
| | 1120 that include relatively large sharpens 1122 for retaining the particles in aggordance with appeted the invention Those networks. |
| | width forholdhe hat regulage them showe for the factor with recommendation |
| | by a standard soft lithography process may |
| חשמח | gent agt the guidernate generally being integrally formed in the |
| | ***microfluidic*** lavor during fabrication of this lavor C |
| חששח | for the substants is the form of the form |
| | ficting reprised for energially, fluid flow through chamber 1132 is |
| רשמר | of them allows the detached allow to be flooded from the system, |
| | ***microfluidic*** mechanism or set of mechanisms, as described |
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| חששח | throughout this detailed description. 105401 BTG 46 about a "**twisterfluidio*** gratem 1010 with a call chamber 1010 formed as a looped channel or ring structure, in accordance with a product of the control of the c |
| | sharbor 1212 formed as a looped channel or ring structure, in accordance |
| DEMD | Total product of an above the state of the s |
| | a chamber 1942 formed as a looped chappel or ring structure in 1240 With |
| משמח | regardings with agreets of the |
| 1701111 | norticles) in a stateminefluidistate about 1910 house or ore |
| | asymmetrically disposed flow path Particles and fluid flow into chamber |
| משמח | 1010 from inlot abannal 1014 |
| | denocit (and retain) colle in one or two demonstrates 1972 1974 Sed to |
| | Comportmonta 1070, 1074 may be consected by radially arrayed 27% |
| | Colla (on other partialed) may be inputted from a Manched wheel atmostrage |
| | and denogited in compartment 1972 Pluid may flow through ***dire*** |
| | coloctive channels 1076 to accord input shannel 1000 Alternatively or |
| | may be insuffed from accord insuf abancal 1000 to be deposited in outer |
| | gomeortment 1074 with fluid flowing toward fight input abound 1070 00 |
| | nonviolations *** *** *** *** **** **** **** **** |
| | hy pagago of relegand ***goll*** components for extended be didlyzed |
| | ***** at rusting through the **** and at in abands |
| | accord compartments may have any quitable goometry auch as |
| | increase the arga of communication between the two compartments. |
| | interpretations between additional *** ** ** ** ** ** ** ** ** ** ** ** * |
| חשמח | [DEST] ****Coll*** _chambon 1000 is a modified warraion of shambon 1070 |
| | that includes an everflow garaghtly your inner generatment 1972 acts |
| | transverse nessens 1994, in addition to ********************************** |
| | channels 1974 Assendingly input channel 1979 may be used to direct |
| חדידה | the standard of the standard o |
| 1 | the manipulation of adherent and nonadherent cells. For example, after |
| חדידה | introduction to a consentration has been achieved golls and loaded water a |
| | the classical field of the control o |
| i | ***migroffuidia*** shannal attractures under the head flow accounted by |
| | the ***microfluidic*** channel by addition of truncin_FDTA or other |
| משעת | coll detaching agents Channel by addition of trypsin-both of other |
| I V Dalay | loft untroited) to promote goll flow goll wishility goll adhesion or |
| i | mandhorian coll Cett trow, cett viability, cett adnesion or |
| עשמע | Systems for Flastrophysiological Analysis of Cells in a |
| משמת | [0573] This overmal describes ***microfluidis*** systems for |
| i | positioning rotaining treating and/or managing cells, particularly |
| משמת | ton olographysic logical analysis, so PTCC E1 E0 |
| | my m is older isolar solar action the membrane of a single 0.1-1 |
| | ****cll*** . durrounding p mombrane "notab" on the . ***coll*** . The |
| | "Boorforstod" with channel forming agents on penetrated based on the |
| | time of information degired with both integt netabog and netabod |
| | density of channels in the membrane determine the number of shannels the |
| | hoing analysed Thus, different of shannels in Imparaneteh B |
| | vacantaine i alteomativalir membrana natedhas can be nextended on *** |
| | mambrana in Hubala ***aall*** H natab alama atudiaa Bartaratad |
| | have a constant of the control of th |
| | whole ***anll*** magazding of shannel activity with loss of lawarte |
| | arteplagmia acomponenta. Denotypted matches place in algetyede incide |
| | ***coll*** to that the electron and the ***coll*** 's cutoplasm |
| | ***cell*** patch-clamp recording ed patches also enable whole- |
| | out pacer orang recording. |
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| משמח | magairements of ion channel activity Those devices position a single |
|--------------|--|
| משמת | [NEON] ET above a ***migrofluidia*** ***domigo*** 1210 for |
| משטח | Davide 1910 included a planar match alamm alectrode classification in this Detailed Description. The fluidid later may be controlled by any suitable control mechanism and be a an exemption ** ***microfluidid*** control later 1900 The base later, may be formed |
| משמח | out of any quitable material auch as alage plactic and/on an (1080) BTCC ED SO shows a ***mismofluidio*** avatem 1240 for ' gingle coll nate alage product of the |
| חששח | Incool This name to describe the tribute of the devices better a single of the control of the co |
| חששה | 106001 ***Chll*** nonitioning moderation 1284 atcombatically concerning the conce |
| ישמע | rependent more include a focusing mechanism 1360. Focusing mechanism 168001 includes the control of the control |
| משמח | children and common reagent inlet channels may unite, entering |
| טשמט
טשמט | **Microfluidic*** System for Multiplexed Analysis of Cells by Patch |
| חשמח | The first control of the first control of the contr |
| משמח | income may be about to arraign affinidiates that that that |
| חששח | System for Multiplexed Analysis of Cells by Patch 1988 in the analysis of Cells but of a control of the analysis o |
| משמע
משמע | Multilavor Mold Dahrigation Mothod of Varying Unight and/or |
| T CO-III C | ***microfluidic*** networks vary; see FIGS. 62-71. |
| | |

| רששרו | pricial of functional particles and an attended may include attended the particle of functional particles and the annual state of the second o |
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| | Stringle without the lantial/portion of with arouate the |
| | Sarrivala realization browsking of barriage along than a given |
| | to 11000 1645 + to 3000 por of bareful and the tabence of tabence |
| | chambers with reef heights that are areator than more narrow channels. |
| מחסמ | as described in Evernole 10 to improve the functionality |
| | acetimentian Acadedinaly these remaining regions of the regulting |
| | of photography may be highly up by goggething ambodiments, multiple layers |
| חשמח | [0014] Despite the importance of varying height and/or areas sectional |
| | cingle layer of coloctively removable material and as photoresist, may |
| | The second of th |
| חששח | donth to the of the armalo have be made to form abaneous with different; |
| | areas sectional accommendation and/or heights at distinct meditions within a
###microfluidic### network % mold is fabricated using mural largers |
| | of photograph that are each individually natherned colocitively removed |
| | from each of the plural laware Heiner the mold to form alling politicing |
| | researce to be formed. Charmela with a rounded/arguate, areas gostionales |
| | duitt and to the property of the contract of t |
| | dimension of a ginal chartery much as a soll mboas structured and the |
| | other quitable ***migrofluidia*** atrustures may be avaduated using the mothed desarthed below This method features on featurities of a fluid |
| | layer hut may be quitable for any nortion(a) of a ***migrefluidic*** |
| חשמח | The fluid laver mald may be used subsequently in a second' |
| | ** this and in idiate to love by soft lithography PTCC 62 60 illustrate |
| משמת | and and and actively and the med by sequentially disposing, |
| TYDHITY | Tack to maid and the war anothing to the form to the property and a specific mary in |
| | narticularly an elactomeric material such as nelvicimethylailorana [77] |
| משמת | [NG23] BIGG 70 and 71 show short-ownshid images of fluid lawer molds and the sorrounceding *** which control with those molds |
| | The ***migrafluidig*** networks represented here have been shown? |
| משמת | Detection for kinetic Analyses in *** Armigrafilaidis*** Cyclema |
| Umau
Umau | and described in system 1340 of Example 11 (FIG. 70) and in a modified. The state of the system 1340 of Example 11 (FIG. 70) and in a modified. The system of the system |
| חששם |] ## ## ## ## ## ## ## ## |
| Nomin | kinetias of many aspects of sellylar metabolism However, metabolis |
| חששח | proceeded of physical and additional proceeded that occur, over relatively |
| | longer time nerieds may be mare difficult to menites in a """""""""""""""""""""""""""""""""" |
| חשמח | ratio dimentho omigaion dignal in proportional to the illuminationse |
| | intermedity Therefore ***microfluidia*** analyzee yould benefit from |
| משקח | cional to noise and/or allows binotic analysis of He latte of |
| | ***migroffuldig*** aggregations with aggregation of the use WICH |
| | a modulation-demodulation |
| DETD | include a conventional microscope or other suitable optical |
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| | dovice that is separate from or partially or wholly interested with a |
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| DEMD | or partially or wholly integrated with, a model with a mo |
| משמת | +++Microffluidic+++ hardward a modulation-bellicotulation mechanism for |
| | The a historylated head hear hear leaded into a twen on a Capellingit. |
| | of Example 2. Dye-labeled streptavidin (reagent) is exposed to the." |
| משמת | The sample 2. Dye-labeled streptavidin (reagen) is exposed to the many control of the sample 2. Dye-labeled streptavidin (reagen) is exposed to the many control of the sample 2. The chip, and the sample 2. The sample 2. The chip, and the sample 2. The sa |
| | gional transduction in a gold A coldium concer due Plus ? was loaded |
| | and again designed against reasons and of Example 2. The cnip, |
| חדידה | two modes and definition of the form of th |
| | magaine intermation shout martialia. There dues may be monhinding or ****hinding*** Monhinding dues do not ***hindi*** to nortialia and |
| | may simply mark fluid valumes ************************************ |
| חחחח | nastial DTC 71D above use of an embediment of modulation demodulation |
| | maghaniam 2020 and a tragger due in a *** *** *** *** *** *** *** *** *** |
| | machaniam auch as machaniam 260 mag. mayimum value in loss than |
| | ***microfluidic*** systems second |
| טשמט | 2014 Microfinidic*** Analysis of a Heterogeneous Particle |
| משמח | TOREST This example describes *** misrofluidis*** systems for sorting |
| משפת | and and house on the second con the second second the second seco |
| אוויסאו | n shillone for named analysis dolls of interpret in blood son analysis |
| | need to be committed a interest to sweld interference from these other collected majority blood may need to be treated/majority. |
| | anloatively lyan annaific nollot ****hind*** and/or modify ** nonon othors annaific anlos within the blood Cush manipulations add to |
| | the time and avecage required for analysis diagonatis areadways using whole blood are avecaging and slow Therefore integrated systems |
| | are monded that subsmatically next and analyze heteroconnected by below the standlett nonulations on a tetroconfluidiate gallo |
| רשמת | [ACEO] This avantal describes ***misrofluidis*** avatoms that sorts |
| משמת | diameters of individual nastiales with those systems year |
| | System 1820 is based on avatem 250 of Evennels 2 and includes positioning |
| | avidom 1520 and directed toward retention aborder 270 Child 1522 of |
| | platelete but do not include detectable white blood calls which usuld |
| | gollo are to large to maggithrough charpels, 209. Thorofore _ quoter 1520 |
| | and platelate from white blood golle for coloctive analysis of the |
| משעת | the distance of the control of the c |
| חששח | ***blood*** ***cells***) in ***tedformation of Specific ***Binding*** Pairs 1000000000000000000000000000000000000 |
| 1 (Dilli) | aragifian statement and racear has a second and avidin, on beads in a |
| חששח | International file ************************************ |
| | specified for information on honds, and PTC 72 Profits is a switchmarker of the month of the mon |
| | brown with an aggorition gongton to 10 our 15 Magus 1 mb.attachment |
| | and thorn is a right literature man arout at report of their many decades, |
| | ***hinding*** auggests that it might be a good model system for the study of hiological ***hinding*** reactions in general It has also |
| | beauty of Diological Dinaring Teacerons in general, it has also |
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send the hearing and sending. The protein chronical strategies the hearing and sending. The protein chronical strategies are provided by the p חדיים משמח חדיים חדיםח רשמר משמח חדידה חדיםח חהמט טשמע טשמע חששח חששח חדידה The state of the server of the state of the חדיםח חדיםח

| | anantagis DE on the outer nursage of the ***acll*** marks the ***acll*** for resembling and shapen the resemble of the property of the propert |
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| | De aun 0 Annovin V ann idantify annotatic andla by ***hinding*** to De approvin V may be detected through a due a annovin through a due a annovin |
| משסת | 10771 This avanual demonstrates industion and detection of call another in a ***microfluidia*** avanual library and then |
| חששח | nnogrammed call doth is initiated by owngamen of these cells to budyong nonvoide Manalogation of De to 107751 Materials used worm as fallows ****Mispellidia*** dhips were |
| חששח | [0701] ****Dinding*** Buffer (BB) was loaded into the shield buffer |
| UDWI
UDWI
UDWI | had yet m. of Amatia Mianagaraniama in a. ***Mianafiyidig***, Cuntara
Haganajama ngahan dalahitan unina a ***Mianafiyidig*** nuntam
Haganajama ngahan dalahitan unina a ***Mianafiyidig*** nuntam anabida 0.
(0.2) mga yitanalahitan (7.5) mga mga yaday nanahaniahin (5.600) |
| עשטע | imbarrand |
| PDML | ************************************** |
| משמת | Analysis of Mombrane Trafficking in a ***Microfluidic*** System |
| חשמח | manare trafficking pathways in cells treated with membrane-labeling |
| חשמת | 100221 Come "FMM" died available from Molecular Brobes ***bind*** to |
| משמת | many trafficking pathways in cells treated with membrane-labeling [1021] Symutonia with the property of the pr |
| טששח | nombrand Area in two-cold stating of the test test two re-
[0900] Metorials used for this applying included the following DM 1 42
and DM 4 64 ways obtained from Melosular Dechos ***Migrafluidia*** |
| חשמח | 100201 Taboling of the ***migrafluidia*** Abin with the DM membrane |
| | 100461 Colla Torna labeled with FM dyes in a ***microfluidic*** |
| חשמח | ****minmafluidic*** abin uning DDC as a service buffer a financial Department of the property |
| DETD | [0859] Protocol C was foiled by the high background produced by dye |
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| משמח | Chattering Cells in Single-Cell or Multi-Cell ***Microfluidic*** |
| משמח | Chambarra |
| משמח | norming and Chaining Colle in a **** gratom, and DICC 00 82. |
| משמח | [0042] This events describes the use of a ***missefluidis*** system to five seal with methods and label the sell with |
| משפח | or solvent, methalici, and laber the cert with |
| משמח | 100681 This example degar hearthe attracture and use of a soft |
| | of molecules complement and/or small negative from sells ing secretion |
| חששח | [NOSS] Many ****call*** analyzas manager release and/or aggretion of |
| | naturally Ear avamala naurona anla for agaration of andagrine |
| | oto , and a broad range of ***anll*** tunng for accretion of molles, |
| | internal amenta Hawara alla amalutian datandan ananata at tarata |
| | er valuaged materials may be difficult to analyze without sensentrating |
| חששה | 100671 **Whiteroffluidid** draftoms may amplicants some of the |
| | difficulties aggestated with measuring material released from sells, but |
| | and degraphed above in Evample 10. The abovered paving small values |
| | maintain the valueded materials in a consentrated from the chambers may |
| | Such (as) stod absorbone do not promoto posda, smallycaid of the malescand. |
| | The state of the s |
| | released meterials (Therefore a ***misserful dist** meshanism is |
| | analyzed in a distinct fluidia compartment that is not part of a primary |
| רשמר | [0000] This avanta a varidae a ***missefluidia*** avatam having a |
| | gommunicate fluidically through a gomi neymochla membrane mbour |
| | animatement shows the fluid lawer and/or below the substrate Dora |
| משמח | system may include a layer similar |
| חששח | Analysis of a Heterogeneous Particle |
| ADDIN'T | and analyzing horizon describe negulation of partial a contain a blood ting |
| משמח | footing hid oramid ifformade in particle dide; are another 1650 that |
| | coloctively retaine and applying larger particles from a mixture of |
| משמח | introduces particular from a particular gample placed in particular 1652 |
| | input recognicing 1666 into ***migrafilled digt** notwork 1660 of gratem |
| מששח | months is the flow of the challenge in the blad sale to fill the challenge in the challenge in the blad sale to fill the challenge in the blad sale to fill the challenge in |
| | ****ndd***, ***hland*** ***dolld*** and blatclotd Whada |
| מששח | and then who do not the the transfer of a retention site, retained, |
| חחיםר | also may he diagonald amount the northweeth of gentline abomen 1704 |
| | Assordingly ***mod*** ***hlood*** ***anlla*** may twayol to
flow through shamhous 1700 and thon waste processors 1602 1604 along a |
| | auhatantial area formed by inlat shannel 1700 and shamber 1706 Intelligible |
| | through nortials asserting absorbed 1704 Transport to shannel 1702 may |
| | may ng chamber channels 1/04. However, the white blood cells |
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| רשמע | Then, walter I'm was be appeared to allow the gravitate buffer this waster waster at 1602 1604 and he wastered to allow the waster than the waster that waster that we waster that waster that waster that waster that waster |
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| | neithe waste redesire is 1600 1604 may be contised to excidence chamber |
| משמת | And the control of defending the control of defending particles, such as cells, the control of defending the control of defending particles, such as cells, the control of defending the control of |
| משמח | OA donied a ten plan whom of a davide being uned to manage the remains of calle to a chome attractant ***Mideral Didicate* name |
| от м | nombaning a northing a the same state of the sam |
| от м | The state of the s |
| стм | What is alaimed in the state of alaim 2 further said ***microfluidio*** ***device*** af alaim 2 further said ***microfluidio*** ***device*** |
| от м | What is claimed in the state of claim 2 further comprising a cell culture mechanism for culturing said particle. |
| от м | Who is a light of the flow rate |
| ст м | The state of the flow rate of the flow r |
| от м | |
| от м | ************************************** |
| от м | Until is disimod is. """"""""""""""""""""""""""""""""""" |
| ст м | The state of the s |
| CLM | What is claimed is: |
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| | material colocted from the group consisting of electmore including a | |
| OT M | montgrand alogs, ceramic, | |
| | ***microfluidic*** passage has is less than about 500 micrometers and | |
| OT M | 12. The standard in the standard for the | |
| | 1 ** William Flinish ** | |
| | and adjacent pagage being galacted from the group consisting of inlet | |
| ст м | Mhot is a simple standard to the standard to t | |
| OT M | ard adjacent passage is a dead-end passage. | |
| | comprising said adjacent passage manipulating said particle. | |
| CT M | The standard of the standard of the standard of the standard standard of the s | |
| | and narrial manipulating is solested from the group of againing sorting. | |
| OT M | The claim of the said | |
| OT M | what is claimed is cells, plant cells, of cells, eukaryotic | |
| | what is a laimed in the state of particle is a plurality or an aggregate of particles. wherein | |
| от м | What is allowed in the containing different naticles. | |
| | Particles.lity of particles is a complex mixture containing different | |
| от м | What is a signed in a signed in the signed in thest the signed in the signed in the signed in the signed in the si | |
| ı | cerum or bodily fluid. Containing different particles is whole blood or | |
| OT M | What is allowed in the said th | |
| | partiale is an eag or embryo | |
| OT M | """ """ """ """ """ """ """ """ """ "" | |
| 1 | ***microfluidic*** passage. or well in fluid communication with said | |
| OT M | What is a laimed to the state of the state o | |
| | ***microfluidic*** passage. | |
| от м | What is a limit in the state of | |
| | raid input mechanism. mechanism in communication with or acting upon | |
| OT M | The standard | |
| от м | what is claimed reasoner, centrifugal pressure, pump sting of | |
| | positioning mechanism is a direct positioning mechanism or an indirect | |
| | positioning modulism is a direct positioning modulism of an indirect | |
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| | rositioning mechanism. |
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| M | What is allimed in |
| w | The state of the s |
| м | dielectrophoretic. |
| м | When is a light of the state of |
| ·w | Month is a limited in the state of the state |
| ъ. | who is do not not be a superior of the superior of claim 31, wherein |
| · 1.4 | raid passage junction is unifying or dividing. |
| | hard the second indicate t |
| ·M | handers by best withing means. |
| M | What is alaimed is. 25 The ***misses** ****dericat** of alaim 24 whenein and should be procured waiting machanism workally aplents said |
| w | The standard of the standard of particles by lateral. The standard of the standard of particles by lateral. The standard of th |
| . W. | ************************************** |
| м | What is alsimed is. 20 mbo ***missefficialis** ***devise** of alsim 27 wherein asid setaption mechanism setains and nextical by excessing or |
| ·M | 78 man **thin and the state of |
| ·M | 40 mba ***microffuidin*** ***dovice*** of alim 20 wherein |
| м | |
| | Many into or adjacent said ***microfluídic*** passage to |
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"estrict longitudinal movement of said particle. от м What is alaimed is. raid direct positioning mechanism is a chemical retention mechanism. 23. The standard with control of the standard OT M OT M OT M Mbria alaimad iditate the state of alaimad physical said particle to a reagent or physical said condition. "Montaion and in a second control of a second OT M CT M raid reagent attracts or repels said particles. of claim 46, wherein OT M What mid Claim induces or inhibits cell particle proliferation. wherein OT M What is alsimod is. ***device*** of claim 45, wherein ~aid reagent is cytotoxic. Tall teagens as troops and the second of the OT M OT M *unctioning of said positioning mechanism.

***Marting of lined lined and the said positioning mechanism for manifestation and the said particles, electric positioning mechanism for the said particles, electric positioning of heat, where the said particle of caused by said particles, hat detects a characteristic of raid particle or caused by said particles. OT M OT M OT M Taid particle or caused by Said particle.

****Marking of the said OT M от м What is claimed is: independent, time-dependent, clicked from the group от м CLM

| | and detector is a great reason a detector that detects a signal produced |
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| OT M | What is also also also the state of also a whorein a signal |
| ст м | The state of the s |
| ст м | What was a laimed interview to the state of the control of the con |
| ст м | the state of all the st |
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| ст м | What is a limit is a state of the state of t |
| от м | The model of the desired and the subspace of the desired of said |
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| ст м | The in limit in the interest of claim of the interest of the |
| ст м | what is claimed in the state of |
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| от м | What is a limit of the state of |
| ст м | What is a laimed is haideast a string ineffective a retaining force and caused by said retaining mechanism. |
| ст м | The standard in the standard i |
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| от м | when the claims in the state of |
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| от м | gold mother region is aslessed from the group consisting of a second |
| C I M | The man descend retention mechanism is a cell culture chamber. 3, wherein |
| OT M | and second recention mechanism is a cert culture chamber. |
| | Comprehense Freight and the state of the sta |
| OT M | What is a litting in Tough combined by the second administration the atoms of |
| | and recently shamper, a call indicate a communication with said chamber, |
| OT M | mark of the strong and in. |
| | nvaridina a ***miavafluidia*** ******************************** |
| | (h) a ***migrofluidid*** naggrap in fluid gommunication with gaid input maghanism. (a) a nagliforniam maghanism in fluid gommunication |
| | nonitioning anial assetials in anial washingselfulationary management while Of contraval in anial fluid agample. (d) a reconstruction machanism for retaining |
| OT M | and norticle was being positioned by said |
| | ************************************** |
| OT M | Mant is also mad is. |
| | The mathed of all in 70 wherein and ***migrafly districting said |
| | mothod further approve the step of attenuating and nextical from said |
| OT M | What is alimed is. On the method of allie 70 wherein and a ***migrationalized a*** |
| | The modern continuous mechanism is a cell culture chamber. 3, wherein the continuous mechanism is a cell culture chamber. 3, wherein the continuous contin |
| ∩т м | What is allaimed is. 11 The mathed of allaim 77 whencin said ***migrafluidia*** |
| CT M | manager of the flow rate or path of the sample fluid or other. |
| | 00 The method of alam 01 whomen and destrol mechanism is a value in |
| | and the method interfection raid. ***missacfile desperonment of the sample fluid or other. 20 missacfile of the flow rate or path of the sample fluid or other. 21 missacfile of the flow rate or path of the sample fluid or other. 22 missacfile of the flow rate or path of the sample fluid or other fluid with saidoin alive; comprises valving said sample fluid or other fluid with saidoin alive; comprises valving said sample fluid or other fluid with saidoin alive. |
| OT M | ************************************** |
| | anid ***microfiluidic*** ***dowica** is formad from a *********************************** |
| | ***migroffluidig*** |
| OT M | when the state of |
| | 24 The method with daid 2 *** higgs 12 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| | deferring of said pump. |
| OT M | what is a laimed in law when he will be written the work and wherein said pump is actuated by deflecting a |
| | wherein acid numb is formed from an alastomeric members within acid |
| | classomeric brook, and wherein said pump is accurated by defrecting a |
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                                                                     than fluids to the device, e.g., blood sample, lysis buffer, and on of the sample is a sample of the sample of the
                                                                                hydrodynamic efficiency for a square array. FIG. 12B is a schematic
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                                                   The straingle vertex. The stagered array has a capture efficiency of the
                                                         Figures are not necessarily to scale.
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"Area" 4A is a graph of the overall efficiency as a function

FIG. 1AB is a graph of the effect of the ***obstacle***

FIG. 15 is a schematic representation of the averagement of The standard of the effect of the ***obstacle*** separation on the standard of the standard of

number of spiked target cells captured on posts and number of cells

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